



INVENTION RECORD

*****One complete form printed per inventor

From: Bruce A. Westergren

To: Michael Johannesen

Case Name: Clarisse 3-1-32-2

Title: Virtual Direct Connect Network

Identify document(s) which describe the invention.
Documents and Dates:

The are no documents on record. Initial concepts were drawn on a whiteboard and then transcribed onto the patent application.

Describe the early history of the invention, including dates and documents not identified above.
History, Documents and Dates:

This was conceived in the Forward Looking Work projects in January 2000. We discovered when experimenting with softswitch and IP protocols that we could reduce the cost of signalling startup and tear down. This lead us to use soft connections creating a virtual mesh network that could switch on demand.

Identify any person other than a co-inventor who was initially made aware of the invention.
Names and Dates:

None

Identify any documents describing the invention that were read or witnessed by any such person.
Documents, Names and Dates:

None

Attach copies, where possible, of each of the documents described above.

None

Describe what was implemented or demonstrated in connection with the invention.

Prototype mesh network using the SIP protocol on a Lucent Web Phone.

Identify persons who worked on the implementation/demonstration.
Names and Dates:

Olivier Clarisse, October 2000

Identify persons who tested the implementation or carried out the demonstration.
Names and Dates:

Olivier Clarisse, November 2000

Identify persons who witnessed or observed the implementation and/or tests.

Pascal Collet, Bruce Westergren

Identify any documents describing the implementation and/or tests.

None

Inventor(s) signature(s) and Date(s)

Bruce A. Westergren 3/15/2002

Attach copies, where possible, of each of the documents described above.

INVENTION RECORD

*****One complete form printed per inventor

From: Olivier B. Clarisse

To: Michael Johannesen

Cc: Bruce Westergren and Pascal Collet

Case Name: Clarisse 3-1-32-2

Title: Virtual Direct Connect Network

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Documents and Dates:

The are no documents on record. Initial concepts were drawn on a whiteboard and then transcribed onto the patent application.

Describe the early history of the invention, including dates and documents not identified above.

History, Documents and Dates:

The 7R/E enhanced telephony services project conducted in the SPEED and Forward Looking Work department began on September 1999. Under this project new approaches to create telephony services were explored and in January 2000 we discovered when experimenting with Bell-Labs research version of soft-switch and IP protocols that we could reduce the overhead of voice connection setup and tear down using a set of soft connections. We used soft connections to create a virtual mesh network that could switch on demand.

Identify any person other than a co-inventor who was initially made aware of the invention.

Names and Dates:

None

Identify any documents describing the invention that were read or witnessed by any such person.

Documents, Names and Dates:

None

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None

Describe what was implemented or demonstrated in connection with the invention.

Prototyped a small mesh network using the SIP protocol on a set of experimental Lucent Web Phones. 4 web phones were interconnected with multiple soft connections to validate the usefulness of the invention. The phones placed actual conversation calls over an Internet LAN and enabled to validate multiple connections being established and reused dynamically. Several deadlock issues specific to the implementation were identified during the test that prevented performance estimations but still enabled us to confirm the basics and usefulness of this invention.

Identify persons who worked on the implementation/demonstration.

Names and Dates:

Olivier Clarisse, October 2000

Identify persons who tested the implementation or carried out the demonstration.

Names and Dates:

Olivier Clarisse, November 2000

Identify persons who witnessed or observed the implementation and/or tests.

Pascal Collet, Bruce Westergren

Identify any documents describing the implementation and/or tests.

A file sip.b includes in Limbo code several software components used in the original implementation.

Inventor(s) signature(s) and Date(s)

Oliver B. Clause

03/18/02

Attach copies, where possible, of each of the documents described above.